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ABSTRACT

As part of a multiphased evaluation of vocational training provided by the Job Corps in fiscal year 1982, an assessment was made of the relative effectiveness of current Job Corps training operations. To arrive at an estimate of overall effectiveness, the researchers weighed the following factors: job-placement percentage, average wage of job, cost per training year, cost per job placement, absolute growth of new job openings from 1980 to 1990, and percentage of occupational growth for the same decade. Receiving the highest ratings were the following training areas: electronics technician, heavy equipment repairer, deckhand, clerk typist, machine operator, solar installer, auto body repairer, railway clerk, and kitchen helper. The following training programs were rated among the least effective: stenographer, nursery school teacher, duplicating machine operator, medical lab technician, and mail clerk. (Included in this report and its appendix are a series of tables detailing the relative effectiveness of Job Corps training provided for 108 occupations.) (MM):

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JOB CORPS

VOCATIONAL OFFERINGS REVIEW

Documentation Report No. 5

Assessment Of The Relative Effectiveness of Job Corps
Current Training Occupations

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October 1983



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Documentation Report No. 5

Assessment of the Relative Effectiveness of Job Corps Current Training Occupations

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I. Introduction

This assessment and rating of current Job Corps occupations provides comparisons of current vocational offerings with each other, and, where it exists, a differentiation within occupations by major types of training providers. Thus, the review focuses on internal comparisons of vocational offerings. The study is not intended as an assessment of the overall effectiveness of the Job Corps vocational program.

To determine which of the vocational occupations in which Job
Corps currently provides training have been relatively more effective than
others, a method of comparing occupations was
needed. A review of the literature was conducted to pick a suitable
analysis system. The system chosen is based on ranking the performance
of each occupation according to a predetermined set of criteria. Points
are awarded to the occupation dependent upon its rank in relation to
other occupations ranked on the same criteria. This method of analysis
is well documented. The National Center for Research in Vocational
Education called it the "Feature Analysis Method" and suggested that
it be used for vocational program planning. The Bureau of Labor
Statistics (BLS) used a similar ranking system, employing decile scoring
to rate occupations for "attractiveness" == comparing them on growth,
earnings and unemployment rates. 2

¹Using Labor Market Information in Vocational Planning, Research and Development Series No. 228, The National Center for Research in Vocational Education, Ohio State University, Columbus, Ohio.

Wash, Patrick D., "Comparing Occupations: Four Measures," Occupational Outlook Quarterly, U.S. Department of Labor, Bureau of Labor Statistics, Fall, 1982

Using a decile scoring system to compare training occupations is a method that is especially rational in a recession-plagued year. For example, between FY 80 and FY 82, overall Job Corps placement fell from 68% to 54%. If an arbitrary measure, such as a 50% job placement rate had been used to evaluate occupational training effectiveness, many programs would have been jeopardized. However, by scoring those occupations in relation to the performance of other occupations in the same year, the overall effect of the recession is eliminated and the need to make arbitrary judgments and cut-offs is alleviated. The decile system makes this comparison by awarding points to an occupation according to its rank on a chosen criterion. The higher the rank, the more points, the lower the rank the fewer the points.

II. Methodology

The following criteria were used to rate Job Corps training occupations. They represent measures of success in past performance, relative cost, and future potential.

- 1. Percent Job Placed The percent of corpsmembers (who were in Job Corps more than 90 days) placed in a job within three to six months after termination. High job placement rates denotes relative occupational effectiveness and is desirable.
- 2. Average Wage of Job The average wage received by corpsmembers (in Job Corps more than 90 days) in each occupation who were job placed within three to six months after termination. The higher the average wage, the higher the ranking of the occupation.



- 3. Cost Per Training Year All direct vocational training related costs, except capital costs, for each occupation divided by the number of corpsmembers years of training time in the occupation. (A corpsmember year may be one corpsmember trained for an entire year or three corpsmembers trained for four months apiece, etc.). Low training year costs are desirable.
- 4. <u>Cost Per Job Placement</u> All direct vocational training related costs, except capital costs, for each occupation divided by the number of corpsmembers (who were in Job Corps for more than 90 days) placed in jobs. Low cost per job placement is destrable.
- 5. Absolute Growth 1980-90 The Bureau of Labor Statistics' (BLS) projected number of new job openings from 1980 to 1990. The more new job openings, the better the rating of the occupation.
- 6. Percent Growth 1980-90 The degree an occupation is expected to grow in relationship to its present size. If the BLS projected percentage growth is high, the rating of the occupation is high.

In FY 82, there were 80 distinct training occupations for which Job Corps trained at least 25 corpsmembers (who stayed longer than 90 days) nationally. Training in these occupations was procured by three different groups; Civilian Conservation Centers (CCC), National Contractors [unions and the National Association of Home Builders (NAHB)] and local centers. There were 66 center-contracted training occupations, 27 nationally contracted training occupations (19 union and 8 NAHB), 12 additional Civilian Conservation Center training occupations and three occupations which had more than 25 trainees

when the trainees from centers were added together with others from either ECC or national contractor training programs. These 108 training occupations, separated by type of training provider, were analyzed and scored according to their rank on each of the six criteria listed on the previous pages.

The following steps were taken to rank training occupations for relative effectiveness utilizing the BLS decile scoring system.

- 1. Each training occupation was ranked on each of the six criteria.

 The occupation scoring highest within each criteria was ranked first and the one scoring lowest, last (see Table V-A). Four of the criteria, percent job placed, average wage of job, cost per job placement and cost per training year, were used to rank all 108 training occupations which represented the 80 distinct occupations broken out by training provider (Center, CCC or national contractor). The two criteria dealing with labor force projections were used to rank only the 80 distinct occupations because the projections did not differ according to the training provider.
- 2. The six ranked lists were divided into deciles. For example, the list of 108 occupations, ranked according to percent job placed, was divided into 10 almost equal parts, with the first ranked 10 or 11 occupations in decile 10, the second 10 or 11 occupations in decile 9, etc. (see Table V-A-I). Following each ten ranked occupations a dividing line was drawn, unless the line would separate two occupations of equal or almost equal performance. In that case, the line was drawn after the 11th occupation. Therefore, two deciles contain ten occupations and eight contain 11 occupations for a total of 108 occupations divided into tenths, or deciles.

- 3. Training occupations were awarded points according to their decile ranking. If an occupation was in the tenth decile it received 10 points. Nine points were awarded an occupation in the ninth decile, eight points for the eighth decile, etc. The maximum point total an occupation could receive on a single criterion was ten -- the lowest was one (see Table V-A).
- 4. The decile scores for each criterion were added to obtain an unweighted effectiveness score for each occupation. (See Table V-B-1, total unweighted score.)

The unweighted score shown in Table V-B-1 would indicate the relative effectiveness of each of the training occupations if all six of the rating criteria were judged to be equally important. Using the unweighted score, average wage of job is just as important as Percent job placed because an occupation can receive ten points for either variable dependent upon their decile ranking. However, most vocational educators would most likely judge percent job placed to be more important in judging the success of a training occupation than the average wage of the job, particularly in the case of entry-level occupations.

Similarily, Job Corps professionals might view some of the criteria as being more important than others in rating effectiveness. For this reason, key administrators in Job Corps were asked to weight the six criteria according to their importance in judging Job Corps training occupation effectiveness.

According to the administrators, the most important variable in judging the relative effectiveness of an occupation within Job Corps was job placement. Two of the six criteria are directly related to job

placement--percent job placed and cost per job placement. They felt that because job placement is the immediate desired outcome of the Job Corps program, these variables should be weighted highest.

Average wage of the Job, while a valid factor in occupational effectiveness, was judged to be a less important criteria than job placement. It was acknowledged that entry level jobs traditionally are low paying and that the primary concern is to obtain employment and subsequent work experience for the corpsmembers.

Cost per training year was judged to be important for judging relative effectiveness but less so than cost per job placement.

The two projection variables were considered necessary for ensuring that Job Corps is training in occupations that will continue to produce an employment market for their trainees. However, general projections for the population as a whole were judged to be less important in rating an occupation than the proven placement rates of the Job Corps population.

Between the two projection variables, absolute growth, the number of jobs by which each occupation is expected to increase between 1980 and 1990, was considered to be more important than percentage growth. Large occupations, with high actual numbers of new job openings, were viewed to be better able to absorb Job Corps trainees than were smaller occupations, even if their percentage growth was large.

The six criteria represent a relative balance among the three considerations of past performance, relative cost, and future potential.

Table A illustrates the weights of these variables as they were assigned by the Job Corps administrators.

6

9

TABLE A Weights of Variables

	Criteria	Weight
ī.	Percent Job Placed	4
2 .	Average Wage of Job	Ī
3.	Cost Per Job Placement	4
4:	Cost Per Training Year	$\bar{2}$
5.	Absolute Employment Growth 1980-1990	2
6.	Percentage Employment Growth, 1980-1990	ī

III. Āriālysis

The decile scores for each of the six criteria (Table V-B-1) were multiplied by their weight assignments to obtain a weighted score for each occupation on each criterion. These weighted scores were then added to obtain the total weighted score shown in the last column of Table V-B-1. The total weighted scores indicate the relative effectiveness of each occupation when compared to other Job Corps training occupations using this scoring system.

Table B shows the 108 training occupations ranked in order of their total relative effectiveness score. The table lists the number of trainees who were in Job Corps at least 90 days, the training provider (Center, CCC or National Contractor) and the total weighted effectiveness score for each of the training occupations. In case of a tie in the score, the equally scored occupations were ranked in order of number of trainees.

TRAINING OCCUPATION RELATIVE EFFECTIVENESS RANK

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I SELECT OF LETT:

UPPER GROUP TRAINING NUMBER OF TRAINING OCCUPATION TOTAL SCORE PROVIDER TRAINEES EFFECTIVENESS RANK 126 45 Center 1. Auto Parts Clerk -2. Welder, Gas Metal 116 60 Center 113 3. Forklift Operator 27 Center Center/CCC 111 32 4. Kitchen Helper* 110 631 Center 5. Electronics Ass. 109 Center 84 6. Security Guard 108 82 Center 7. Machine Operator 108 26 Center 8. Sheet Metal Worker 106 9. Warehouser 180 Center 103 42 Center 10.Pest Control 102 433 Center 11. Retail Sales Clerk 101 Center 12. Insulation Worker 25 . 99 623 Center 13. Electrician 99 87 Center 14 Dental Assistant 15. Cook, Short Order 99 54 Center 98 188 Center 16.Ward Clerk B. R. A. C'. 98 62 17.Clerk, General 97 27 Center 18. Teller 96 598 Center 19.Clerk, General 95 Center 25 20. Electronic Tech. 94 3,067 Center 21. Nurse's Assistant 22. Auto Service/Re-94 981 Center pairer 23. Auto Service/Re-93 ECE 222 _ pairer Center 91 161 24. Cashier/Checker 91 28 Center 25.Diesel Mechanic 90 N.A.H.B. 149 26. Electrician 89 Center 27. Ländscaper 397 28. Auto Mechanic 88 562 Center Helper 88 39 Center 29. Hosp. Diet. Aide 87 3,154 Center 30. Clerk-Typist 87 CCC 45 31. Brick/Stone Mason 85 Center 777 32. Auto Body Repair 86 N.A.H.B. 95 33. Painter 85 71 Center 34 Meat Eutter

> X Upper Standard Deviation Line Mean Score = 78 Standard Deviation = 18

TABLE B
TRAINING OCCUPATION RELATIVE EFFECTIVENESS RANK

MIDDLE GROUP

	MIDDLE GROUP		
TRAINING OCCUPATION EFFECTIVENESS RANK	NUMBER OF TRAINEES	TRAINING PROVIDER	TOTAL SCORE
35. Combination Welder 36. Accounting Clerk 37. Machinist 38. Waiter/Waitress 39. Painter 40. Electricial Appl.	1,830 276 87 31 431 103	Center Center Center Center Center Center	84 84 84 84 83 83
41. Machine Operator, Lathe 42. Professional	45	Center	83
Program Aide 43. Plumber 44. Custodial Maint. 45. Solor Installer	42 277 232 139	Center Center N.A.H.B. N.A.H.B.	83 81 80 80
46. Licensed Prac. Nurse 47. Cement Mason 48. Brick/Stone Mason 49. Bookkeeper 50. Clerk Typist 51. Cook 52. Welder, Spot 53. Air Cond/Ref. Mech. 54. Offset Printer 55. Electrician Helper 56. Plumber 57. Draftser 58. Custodial Maint, 59. Brick/Stone Mason 60. Receptionist 61. Welder, Combination 62. Auto Ser. Repair 63. Ser. Stat. Atten. 64. Telecommunications 65. Welder, Spot 66. Secretary 67. Furniture Uphol. 68. Auto Body Repair 69. Carpenter Const. 70. Carpenter Const. 71. Radio/TV Repair 72. Floor Layer*	76 555 639 313 51 1,940 601 245 213 62 209 160 1,226 88 144 930 131 121 56 59 60 51 693 220 47 34	Center CCC Center B.R.A.C. Center Center Center Center Center Center N.A.H.B. Center N.A.H.B Center Center N.A.W. Center Center N.A.W. Center Center/IBPAT	80 80 79 79 79 79 78 78 78 78 77 76 75 75 74 7 73 73 73 73 72 72 72 71 71

TABLE B TRAINING OCCUPATION RELATIVE EFFECTIVENESS RANK

	LOWER GROUP		
TRAINING_OCCUPATION EFFECTIVENESS RANK	NUMBER OF TRAINEES	TRAINING PROVIDER	TOTAL_SCORE
73. Service Stat. Att. 74. Carpenter Const. 75. Cement Mason 76. Teacher/Nursery 77. Combination Welder 78. Engineer Aide/ 79. Heavy Equip. Oper. 80. Auto Mech. Helper 81. Tilesetter 82. Stock Clerk 83. Small Gas Eng. Rep. 84. Calc. Mach. Oper. 85. Deckhand 86. Brick/Stone Mason 87. Forestry/Conser. 88. Cement Mason 89. Medical Assistant 90. Painter 91. Animal Caretaker 92. Conts. Labor 93. Heavy Equip. Rep. 94. Custodial Maint. 95. Railway Clerk 96. Cook 97. Keypunch Operator 98. Baker 99. Heavy Equip. Oper. 100. Duplicating Machine Operator 101. Cement Mason 102. Cosmetologist 103. Plasterer 104. Medical Lab Ass't. 105. Clerk-Typist 106. Stenographer 107. Heavy Equip. Rep. 108. Mail Clerk	30 1,228 338 124 44 30 158 169 585 67 47 339 127 540 101 646 3244 227 790 297 290 27 290 27 290 27 290 27 290 27 290 27 290 290 290 290 290 290 290 290 290 290	AFL-CIO U.B.C.J.A. OPE/CMI Center AFL-CIO I.U.O.E. I.U.O.E. CCC I.M.I. CCC Center Cent	70 69 69 69 69 69 69 69 69 69 69 67 67 67 67 67 68 68 62 62 62 62 62 62 62 62 63 62 62 63 64 63 62 62 63 64 63 65 67 67 67 67 57 57 57 57 57 57 57 57 57 57 57 57 57
		ત	

^{*}Data on trainees from two procurement groups were added together to have a smaple of more than 25 trainees.

\$Cost Per Job Placement exceeds twice the National Average of \$3,076.

\$Projected Absolute Growth of less than 1,000 new jobs between 1989-1990.

XXLower Standard Deviation Line

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TABLE C CODE KEY FOR TRAINING PROVIDERS

CODE	EXPLANATION
AFL-CIO	American Federation of Labor Congress of Industrial Organizations
B:R:A:C:	Brotherhood of Railway and Airline Clerks
CENTER	Contract Center
CCC	Civilian Conservation Center
Í.B.P.A.T.	International Brotherhood of Painters and Allied Trades
İ.M.İ.	International Masonry Institute
İ.M.Ü.	International Maritime Union
i.ü.ö.E.	International Union of Operating Engineers
Ñ.Ā.H.B.	National Association of Homebuilders
Ö.P./C.M.I.	Operation Plasterers and Cement Mason's International Association
Ü.Ā.W.	United Automobile Workers
Ü.B.C.J.Ā.	United Brotherhood of Carpenters and Joiners of America

The maximum possible weighted relative effectiveness score was 140 and the minimum was 14. The top-ranked training occupation was Auto Parts Clerk with a score of 126. Twelve occupations had a point total of 100 or more. The occupation scoring the lowest was Mail Clerk with a total score of 29. Six training occupations had scores lower than 50. Half of the occupations scored 78 or above and half of them scored 78 or below (median score).

Value judgements are inherent in any weighting system. Therefore, the results of the weighted scoring system was checked against a ranked list produced by using the unweighted scores of occupations as reported in Table V-B. The unweighted ranked occupations are displayed in attached Table V-C. The final ranked list produced by the weighted scoring (Table B) showed results similar to the unweighted rankings (Table V-C). Only four of the 33 training occupations in the upper groups of the unweighted rankings were not also in the upper group in the Weighted ranks. Only seven of the 36 occupations in the bottom group of the weighted rankings were not also in the bottom group of the unweighted list. The weights assigned made minimal differences in judging the comparative effectiveness of training occupations within Job Corps. This indicates that the weights provided by the Job Corps managers were relatively balanced between outcome measures and cost variables, but slightly less emphasis was placed on the labor market projections in the weighted scheme causing some minor shifts.



IV. Results

The 108 rated occupations were divided into three groups — upper, middle and lower. The upper group, or those occupations scoring 85 points or more, are performing well in comparison to other Job Corps training occupations. To be in the upper group, these occupations have to have a good rating in either past performance, relative cost, future potential or some combination of these criteria. None of these occupations showed excessive cost per job placement (as indicated on Table B by "\$") or negative future growth (&). Those above the upper standard deviation line can be considered especially solid training occupations for the Job Corps population.

The middle group, those occupation scoring from 71 to 84, are considered acceptable training occupations. Either their past performance, relative cost or future potential was positive enough for them to be scored in this category. The occupations of Clerk Typists and Auto Service Repair, both trained by national contractors, are exceptions in this category. They each have cost per job placement rates exceeding twice the national average as indicated by the dollar signs (\$) on Table B.

The bottom group includes those occupations scoring 70 or fewer points. Occupations in this group have either relatively low job placement rates, relatively high costs and relatively low growth potential or some combination of these factors. Within this bottom group are several training occupations that also have excessive costs (\$) or negative growth (&). These occupations, along with the 16 occupations below the lower standard deviation line, are candidates for particularly close

examination at each local center which is providing the training.

The type of training provider or contract procurement group sometimes made a distinct difference in the relative effectiveness outcome and sometimes it did not. For example, Clerk General, trained by both national and center contractors, had scores of 98 and 96. Plumbers, also trained by these two groups had similar scores of 81 and 77. Electricians for both groups did well (scores of 99-90). Combination Welders did a least "fair" when training was procured by any of the three groups. Heavy Equipment Operators and Repairers were in the bottom third for both national and center contractors.

In other cases procurement type did make a difference in relative effectiveness score for a training occupation.

- (1) Cement Mason training is in the middle group at EEEs but in the bottom group when provided by center and national contractors.
- (2) Brick/Stone Mason training is in the upper group at centers and CCCs, in the middle group when provided by NAHB, and in the lower group when provided by the union contractor.
- (3) Eustodial Maintenance is in the middle group at centers and when provided by national contractors but in the bottom group at CCCs.
- (4) Cooks are performing relatively better at centers than at CCCs.
- (5) Auto Service Repair is in the upper group at centers and CCCs but has been flagged for excessive costs when provided by national contractors.





- (6) Auto Mechanic Helpers are in the upper group at centers but in the bottom group at CCCs.
- (7) Clerk Typist training is doing very well when procured by centers, shows high cost with National Contractors and is in the lower group and has high costs at CCCs.

Some of these differences may justify replacing one procurement group with another rather than eliminating the training occupation at the center.

This section of Documentation Report No. 5 has provided a summary of the findings of the comparative performance of the current Job Corps occupations according to a set of specified criteria. The Final Report contains specific recommendations regarding actions to be taken as a result of the findings of the review.

TABLE V-A-1
TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES
PERCENT JOB PLACED

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUT COME	DECILE
1. Electronic Tech. 2. Heavy Equip. Repair 3. Deckhand 4. Clerk Typist 5. Machine Operator 6. Solar Installer 7. Auto Body Repair 8. Railway Clerk 9. Kitchen Helper* 10. Electrician 11. Clerk, General	Center I.U.O.E. I.M.U. B.R.A.C. Center N.A.H.B. U.A.W. B.R.A.C. Center/CCC N.A.H.B. B.R.A.C.	88.0% 85.1 82.4 80.3 78.0 72.2 70.5 70.2 68.7 67.8	10 10 10 10 10 10 10 10
12. Heavy Equip. Oper. 13. Engineering Aide/Rodman 14. Forklift Operator 15. Cement Mason 16. Auto Parts Clerk 17. Cook, Short Order 18. Brick/Stone Mason 19. Welder, Gas Metal Arc. 20. Sheet Metal Worker 21. Diesel Mechanic 22. Security Guard	I.U.O.E. I.U.O.E. Center CCC Center CCC Center Ccnter Center Center Center Center	67.7 66.6 66.6 65.4 64.4 62.9 62.2 61.6 61.5 60.7	:0:0:0:0:0:0:0:0:0:0:0
23. Tilesetter 24. Plumber 25. Offset Printer 26. Dental Assistant 27. Auto Service/Repair 28. Meat Cutter 29. Custodial Maint.(B&A) 30. Painters 31. Warehouseman 32. Auto Service/Repair 33. Carpentry Const.	I.M.I. N.A.H.B. Center Center U.A.W. Center N.A.H.B. N.A.H.B. Center CCC U.B.C.J.A.	60.3 60.2 60.0 59.7 59.5 59.1 59.0 58.9 58.3 58.1	ର ରା ରା ର ର ର ର ର ର ର ର ର ର .
34. Machine Oper. Lathe 35. Forestry and Conser. 36. Machinist 37. Pest Control 38. Painter 39. Cement Mason 40. Plasterers 41. Animal Caretakers 42. Welder, Spot 43. Construction, Labor 44. Brick/Stone Mason	Center CCC Center Center I.B.P.A.T. O.P.C.M.I. C.P.C.M.I. Center CCC CCC N.A.H.B.	57.7 57.4 57.1 56.3 56.2 56.1 56.0 55.9 54.6	7 7 7 7 7 7 7

TABLE V-A-1 TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES PERCENT JOB PLACED

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
45. Furniture Uphol. 46. Carpenter, Const. 47. Electronic Assembly 48. Combination Welder 49. License Prac. Nurse 50. Floor Layer* 51. Brick/Stone Mason 52. Insulation Worker 53. Waiter/Waitress 54. Combination Welder 55. Stock Clerk	Center N.A.H.B. Center CCC Center Center I.M.I. Center Center Center Center Center	54.5 54.1 54.0 53.9 52.9 52.6 52.0 51.6 50.9 50.5	666666666
56. Combination Welder 57. Plumber 58. Electricial Appl. Rep. 59. Heavy Equip. Oper. 60. Secretary 61. Cook 62. Auto Rody Repair 63. Telecommunications 64. Auto Mech. Helper 65. Service Stat. Atten. 66. Electrician	Center Center Center Center Center CCC Center AFL-CIO Center Center Center Center	50.2 50.1 49.5 49.3 49.2 48.6 48.3 48.2 48.2 47.9	55555555555
67. Auto Mech. Helper 68. Cosmetologist 69. Landscaper 70. Auto Service/Repair 71. Custodial Maint. 72. Air Cond./Ref. Mech. 73. Draftsman 74. Accounting Clerk 75. Ward Clerk 76. Retail Sale Clerk 77. Small Gas Eng. Repair	CCC Center Center CCC Center Center Center Center Center Center	47.7 47.6 47.6 47.6 46.6 46.1 45.0 44.9 44.1 43.6 43.2	4 4 4 4 4 4 4 4 4 4 4 4
78. Carpenter_Const. 79. Keypunch Operator 80. Painter 81. Radio/TV_Repair 82. Custodial Maint. 83. Clerk, General 84. Cement Mason 85. Cement Mason 86. Electrician Helper 87. Hospital Dietary Aide 88. Medical_Assistant	Center Center Center Center Center Center Center Center Center Center Center Center Center	43.1 42.6 42.6 42.5 42.4 42.4 42.3 42.2 41.9 41.0	

TABLE V-A-1 TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES PRECENT JOB PLACED

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
89. Teller 90. Brick/Stone Mason 91. Heavy Equip. Repair 92. Service Stat. Atten. 93. Welder, Spot 94. Cook 95. Bookkeeper 96. Prof. Program Aide 97. Nurse's Assistant 98. Clerk Typist	Center Center Center AFL-CIO Center Center Center Center Center Center Center Center	40.7 40.2 40.0 39.6 39.2 38.3 38.0 37.9 36.2	2 2 2 2 2 2 2 2 2 2
99. Clerk Typist 100. Baker 101. Receptionist 102. Cashier/Checker 103. Calcu. Mach. Oper. 104. Stenographer 105. Teacher, Nursery 106. Dupl. Mach. Oper. 107. Medical Lab. Tech. 108. Mail Clerk	CCC Center Center Center Center Center Center Center AFL-CIO	35.9 35.6 35.4 34.7 34.0 32.6 30.6 21.9 18.5 13.1]
			i a
	21		

TABLE V-A-2 /
TRAINING DECUPATION RANK AND DECILE SCORE ON RATING VARIABLES
AVERAGE WAGE

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE.
1. Clerk-Typist 2. Electronic Technician 3. Railway Clerk 4. Deckhand 5. Heavy Equip. Operator 6. Licensed Prac. Nurse 7. Floor Layer* 8. Machine Operator 9. Tilesetter 10. Plasterer 11. Carpenter, Const.	B.R.A.C. Center B.R.A.C. N.M.U. I.U.O.E. Center Center/IBPAT Center I.M.I. O.P.C.M.I. U.B.C.J.A.	\$6.39 6.19 5.93 5.65 5.14 5.04 5.02 4.87 4.80 4.73 4.70	10 10 10 10 10 10 10 10 10
12. Cement Mason 13. Eng. Aide/Rodman 14. Auto Body Repair 15. Painter 16. Brick/Stone Mason 17. Heavy Equip. Repair 18. Solar Installer 19. Welder, Spot 20. Combination Welder 21. Auto Service Repair 22. Clerk, General	O.P.C.M.I. I.U.O.E. U.A.W. I.B.P.A.T. I.M.I. I.U.O.E. N.A.H/B. CCC AFL-CIO U.A.W. B.R.A.C.	4.69 4.61 4.53 4.53 4.53 4.53 4.52 4.51 4.50 4.45 4.45	(0)(0)(0)(0)(0)(0)(0)(0)(0)
23. Combination Welder 24. Cement Mason 25. Combination Welder 26. Heavy Equipment Oper. 27. Forklift Operator 28. Sheet Metal Worker 29. Welder, Gas Metal Arc 30. Machinist 31. Plumber 32. Welder, Spot 33. Animal Caretaker	Center N.A.H.B. rCC Center Center Center Center N.H.A.B. Center Center	4.43 4.43 4.40 4.36 4.31 4.28 4.27 4.27 4.27 4.21 4.19 4.15	888888888
34. Draftsman 35. Electrician 36. Auto Service Repair 37. Stock Clerk 38. Diesel Mechanic 39. Offset Printer 40. Meat Cutter 41. Brick/Stone Mason 42. Painter 43. Brick/Stone Mason 44. Dental Assistant 45. Heavy Equip Repair	Center N.A.H.B. CCC CCC Center Center Center CCC N.A.H.B. N.A.H.B. Center Center	4.14 4.13 4.12 4.11 4.09 4.07 4.05 4.04 4.02 4.02 4.02 4.02	7 7 7 7 7 7 7 7 7 7 7

TABLE V-A-2

TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES

AVERAGE WAGE

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
46. Warehouseman 47. Forestry & Conser. 48. Electrician 49. Insulation Worker 50. Medical Assistant 51. Carpenter, Const. 52. Electronic Assembler 53. Cement Mason 54. Custodial Maint. 55. Accounting Clerk 56. Keypunch Operator	Center CCC Center Center Center N.A.H.B. Center CCC Center Ccnter Ccnter	4.00 3.99 3.98 \$3.98 3.95 3.94 3.94 3.93 3.92 3.91 3.90	9999999999
57. Clerk, General 58. Prof. Program Aide 59. Auto Mechanic Helper 60. Machine Oper., Lathe 61. Construction Labor 62. Auto Body Repair 63. Teller 64. Cook 65. Auto Parts Clerk 66. Radio/TV Repair 67. Custodial Maint.	Center Center Center Center CCC Center Center CCC Center CCC Center CCC	3.89 3.89 3.89 3.89 3.87 3.87 3.87 3.86 3.86 3.86 3.85	5555555555
68: Auto Service Repair 69: Landscaper 70: Electricial Appl. Rep. 71: Plumber 72: Carpenter, Const. 73: Clerk-Typist 74: Stenographer 75: Clerk-Typist 76: Baker 77: Cook, Short Order 78: Telecommunications	Center Center Center Center Center CCC Center Center Center Center Center Center AFL-CIO	3.84 3.84 3.82 3.79 3.79 3.78 3.77 3.77 3.76 3.76	4 4 4 4 4 4 4 4
79. Pest Control 80. Bookkeeper 81. Security Guard 82. Service Stat. Atten. 83. Brick/Stone Mason 84. Auto Mechanic Helper 85. Ward Clerk 86. Furniture Uphol. 87. Air Cond./Ref. Mech. 88. Custodial Maintenance	Center Center Center Center Center Center CCC Center Center Center Center N.A.H.B.	3.75 3.75 3.75 3.74 3.74 3.74 3.73 3.73 3.72 5.72	33333333333



TABLE V-A-2 TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES

AVERAGE WAGE

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
89. Painter 90. Service Stat. Atten. 91. Cement Mason 92. Receptionist 93. Cook 94. Cosmetologist 95. Kitchen Helper* 96. Nurse Assistant 97. Small Gas Eng. Repair 98. Cashier/Checker	Center AFL-CIO Center Center Center Center Center Center Center Center Center Center	3.69 3.68 3.65 3.65 3.64 3.60 3.60 3.60	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
99. Dup. Mach. Operator 100.Retail Sales Clerk 101.Secretary 102.Calculating Mach. Oper. 103.Medical Lab Assistant 104.Teacher, Nursery 105.Mail Clerk 106.Waiter/Waitress 107.Electrician Helper 108.Hospital Dietary Aide	Center Center Center Center Center Center AFL-CIO Center Center Center Center	3.59 3.51 3.50 3.47 3.47 3.39 3.35 3.35 3.22	
* This occupation has more two procurement types are	than 25 trainees only w combined.	hen data from	
	24	;	

TABLE V-A-3

TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES

COST PER JOB PLACEMENT

TRAII	NING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
		,		
	Pest Control	Center	\$ 607	10
	Professional Program		:	
~ .	Aide	Center	959	10
3:	Warehouseman	Center	1,000	10
	Welder, Gas Metal Arc	Center	1,022	10
	Auto Parts Clerk	Center	1,054	10
1	Landscaper	Center	1,080	10
	Electronic Assembler	Center	1,116	ŢŌ
	Forklift Operator	Center	1,163	10
9.	= =	Center	1,209	10
	Retail Sales Clerk	Center	1,215	10
	Painter	Center	1,290	10
	Taintei			
12	Calculating Machine		'	_
	Operator	Center	1,305	9 9
13.	Clerk, General	Center	1,340	9
14.	Hospital Dietician			_
1	Aide	Center	1,372	9
15.	Insulation Worker	Center	1,499	9
16.	• •	Center	1,520	ି ଓ । ପ୍ରାୟ : ପ୍ରାୟ
	Ward Clerk	Center	1,575	9
	Teacher, Nursery	Center	1,605	9
19.	Electrical Appliance	٠.		
13.	Repair	Center	1,643	9
20.	Electrician	Center	1,644	9.9
21.		Center	1,646	9
21.				
22.	Machine Operator	Center	1,711	8
23.	Auto Service/Repair	Center	1,731	8
24.	Cook	Center	1,737	8
25.	-	Center	1,763	8
26.		. Center	1,800	8
	Ritchen Helper*	Center/CCC	1,822	8
	Brick/Stone Mason	Center	1,835	8
29.	Auto Body Repair	Center	1,836	&: \&: \&: \&: \&: \&: \&: \&: \&: \&: \
	Cook, Short Order	Center	1,859	
31.	Air Cond/Ref Mechanic	Center	1,873	8
32.	Sheet Metal Worker	Center	1,879	, 8
24.	Direct fictor worker		., ., ., .,	
33.	Duplicating Machine	j		المحدد التي
	Operator	Center	1,947	7
34.	Dental Assistant	Center	1,957	7
35.	Receptionist	Center	2,012	7
36.	Furniture Upholster	Center	2,070	7
37.	Accounting Clerk	Center	2,095	7
				,
	원호 1 중요 20	25		
	· · · · · · · · · · · · · · · · · · ·	23 ~0	′	
11				- 1

TABLE V-A-3
TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES
COST PER JOB PLACEMENT

TRAINI	ING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
39. E 40. V 41.	Service Station Att. Bookkeeper Waiter/Waitress Telecommunications Welder, Spot	AFL-CIO Center Center AFL-CIO Center	\$2,147 2,148 2,174 2,214 2,265	7 7 7 7 7
44. N 45. C 46. E 47. N 48. F 49. k 50. A 51. F	Meat Cutter Machinist Combination Welder Baker Machine Oper: Lathe Painter Keypunch Operator Auto Mech: Helper Plumber Clerk, General	Center Center Center Center Center N.A.H.B. Center Center Center Center Center Center Center	2,321 2,325 2,329 2,338 2,358 2,377 2,404 2,424 2,424 2,426 2,453 2,556	6666666666
54. S 55. C 56. R 57. F 58. D 60. C 61. D 62. A	Dervice Stat. Att. Offset Printer Radio/TV Repair Orestry & Conser. Oraftsman Carpenter, Const. Oustodial Maint. Oiesel Mechanic Outo Service /Repair Small Gas Eng. Rep. Cement Mason	Center Center Center CCC Center Center Center Center Center Center Center Center Conter Conter Conter	2,565 2,567 2,570 2,626 2,637 2,742 2,767 2,836 2,911 2,971 3,018	5555555555
66. S 67. C 68. A 69. C 70. M 71. E 72. B 73. C	Auto Mech. Helper Jolar Installer John Melder John Melder John Melder John Melder Jedical Assistant Jectronic Tech. Josmetologist Joor Layer* Jectrician	CCC N.A.H.B. CCC Center Center Conter CCC Center CCC Center N.A.H.B.	3,129 3,140 3,250 3,277 3,386 3,492 3,552 3,559 3,651 3,740 3,791	4 4 4 4 4 4 4 4 4

TABLE V-A-3
TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES
COST PER JOB PLACEMENT

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
76. Carpenter, Const. 77. Cement Mason 78. Plumber 79. Secretary 80. Custodial Maint. 81. Welder, Spot 82. Deckhand 83. Stenographer 84. Stock Clerk 85. Brick/Stone Mason 86. Licensed Prac. Nurse	N.A.H.B. CCC N.A.H.B. Center N.A.H.B. CCC I.M.U. Center CCC N.A.H.B. Center	3;824 3;945 4;008 4;409 4;440 4;493 4;677 4;788 4;817 4;879 4;854	ି (ପ) (ପ) (ପ) (ପ) (ପ) (ପ) (ପ) (ପ) (ପ) (ପ)
87. Med. Lab Assistant 88. Cook 89. Custodial Maint: 90. Auto Body Repair 91. Construction Labor 92. Cement Mason 93. Heavy Equip: Operator 94. Brick/Stone Mason 95. Tilesetter 96. Cement Mason 97. Painter	Center/AFL=CIO CCC CCC U.A.W. CCC OPCMI Center I.M.I. I.M.I. N.A.H.B. IBPAT	4 937 5 169 5 262 5 457 5 493 5 801 5 956 6 069 6 313 6 567 6 588	22222222222
98: Clerk Typist 99: Plasterer 100: Auto/Service Repair 101: Clerk Typist 102: Carpenter Const. 103: Heavy Equip. Repair 104: Railway Clerk 105: Heavy Equip. Repair 106: Mail Clerk 107: Heavy Equip. Operator 108: Engineering Aide Rodman	CCC OPCMI U.A.W. CCC UBCJA Center B.R.A.C. I.U.O.E. AFL-CIO I.U.O.E.	6,666 6,928 7,777 7,780 8,117 8,278 8,568 8,891 10,046 11,337	
	27		;



TABLE V-A-4 TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES COST PER TRAINING YEAR

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
1. Teller 2. Prof. Program Aide 3. Insulation Worker 4. Cashier/Checker 5. Clerk-Typist 6. Auto Parts Clerk 7. Retail Sales Clerk 8. Ward Clerk 9. Cal. Mach. Operator 10. Clerk, General 11. Radio/TV Repair	Center Center Center Center Center Center Center Center Center Center Center Center	\$ 458 480 487 545 559 577 588 589 596 606 619	10 10 10 10 10 10 10 10
12. Receptionist 13. Bookkeeper 14. Pest Control 15. Electricial Appl. Rep. 16. Small Gas Eng. Rep. 17. Nurse's Assistant 18. Stenographer 19. Hosp. Dietician Aide 20. Electrician 21. Accounting Clerk 22. Sheet Metal Worker	Center Center Center Center Center Center Center Center Center Center Center Center Center Center	622 633 633 650 653 656 658 665 666 689 699	
23. Electronics Assembler 24. Cook 25. Electrician Helper 26. Warehouseman 27. Auto Body Repair 28. Auto Service Repair 29. Brick/Stone Mason 30. Painter 31. Dup. Mach. Operator 32. Medical Lab. Tech.	Center Center Center Center Center Center Center Center Center Center Center Center Center Center	711 711 717 724 727 758 764 775 779 814	: 80; 80; 80; 80; 80; 80; 80; 80; 80; 80;
33. Welder, Spot 34. Furniture Uphol. 35. Forklift Operator 36. Landscaper 37. Baker 38. Machine Operator 39. Auto Mechanic Helper 40. Carpenter, Const. 41. Service Stat. Atten. 42. Security Guard 43. Plumber	Center Center Center Center Center Center Center Center AFL-CIO Center	824 828 837 865 869 883 896 907 920 927 958	. Z Z Z Z Z Z Z Z Z Z Z



TABLE V-A-4

TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES COST PER TRAINING YEAR

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUT COME	DECILE
44. Keypunch Operator 45. Medical Assistant 46. Combination Welder 47. Air Cond/Ref. Mech. 48. Welder, Gas Metal Arc. 49. Telecommunications 50. Machine, Oper. Lathe 51. Meat Cutter 52. Service Stat. Atten. 53. Custodial Maint. 54. Dental Assistant	Center Center Center Center Center AFL-CIO Center Center Center Center Center	971 974 980 989 995 996 1:022 1;037 1;055 1;068	66666666666
55. Machinist 56. Mail Clerk 57. Draftsman 58. Kitchen Helper* 59. Cement Mason 60. Secretary 61. Teacher, Nursery 62. Diesel Mechanic 63. Offset Printer 64. Cosmetologist 65. Painter	Center_ AFL-CIO Center_CCC Center Center Center Center Center Center Center Center Center Center N.A.H.B.	1,086 1,092 1,124 1,145 1,185 1,189 1,245 1,303 1,341 1,358 1,401	55555555555
66. Brick/Stone Mason 67. Combination Welder 68. Carpenter, Const. 69. Floor Layer* 70. Clerk-Typist 71. Custodial Maint. 72. Auto Mech. Helper 73. Brick/Stone Mason 74. Auto Service Repair 75. Licensed Prac. Nurse 76. Electrician	N.A.H.B. AFL-CIO N.A.H.B. Center/IBPAT CCC N.A.H.B. CCC CCC CCC CCC Center N.A.H.B.	1,436 1,451 1,463 1,464 1,503 1,601 1,678 1,748 1,755 1,813	4 4 4 4 4 4 4 4 4 4
77. Plumber 78. Cement Mason 79. Forestry & Conser. 80. Solar Installer 81. Cook, Short Order 82. Waiter/Waitress 83. Combination Welder 84. Cement Mason 85. Heavy Equipment Rep. 86. Custodial Maint.	N.A.H.B. N.A.H.B. CCC N.A.H.B. Center Center CCC CCC CCC	1,906 1,965 1,976 2,004 2,107 2,174 2,330 2,449 2,484 2,516	3 3 3 3 3 3 3 3 3 3 3 3 3



TABLE V-A-4 TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES

COST PER TRAINING YEAR

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
87. Cement Mason 88. Cook 89. Tilesetter 90. Welder, Spot 91. Plasterer 92. Heavy Equip. Operator 93. Brick/Stone Mason 94. Painter 95. Electronics Tech. 96. Stock Clerk 97. Clerk-Typist	O.P.C.M.I. CCC I.M.I. CCC O.P.C.M.I. Center I.M.I. I.B.P.A.T. Center CCC B.R.A.C.	2,662 2,687 2,694 2,796 2,824 2,863 2,892 2,970 3,006 3,046 3,097	2:
98. Clerk, General 99. Animal Caretaker 100. Construction Laborer 101. Deckhand 102. Carpenter, Const. 103. Auto Body Repair 104. Auto Service Repair 105. Railway Clerk 106. Heavy Equip. Repair 107. Heavy Equip. Oper. 108. Engineering Aide/ Rodman	B:R:A:C: Center CCC I:M:U: U:B:C:J:A: U:A:W: U:A:W: B:R:A:C: I:U:O:E: I:U:O.E:	3,158 3,277 3,283 3,446 3,521 3,638 3,889 4,138 5,680 6,318	ָר. יוּ
* Data on trainees from two have a sample of more than	procurement groups wer 25 trainees.	e added toget	her to
	: ·	ı	



TABLE V-A-5 TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES ABSOLUTE GROWTH 1980-1990

TRAINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
1. Secretary	Center	700,006+	10
2. Nurse's Assistant	Center	506,000	10
3. Custodial Maintenance	Center/CCC/National	491,000	10
4. Retail Sales Clerk	Center	465,000	10
5. Auto Parts Clerk	Center	465,000	10
6. Cashier/Checker	Center	446,000	10
7. General Clerk	Center/National	366,000	10
8, Ward Clerk	Center	366,000	10
9. Waiter/Waitress	Center	361,000	9
10. Construction Labor	CCC	250,000	9
11. Electronic Assembler	Center	241,000	:9 9:9 : 9:9
12. Kitchen Helper	Center/CCC	231,000	9
13. Auto Mechanic Helper	Center/CCC	209,000	9 9
14. Electrician Helper	Center	209,000	9
15. Clerk Typist	Center/CCC/National	184,000	9
16. Auto Service Repair	Center/CCC/National	179,000	, , , , , , , , , , , , , , , , , , ,
17. Licensed Practical	-	177,000	. B
Nurse	Center	168,000	. B
18. Bookkeeper	Center	152,000	8
19. Security Guard	Center	142,000	8
20. Stock Clerk	CCC Center/CCC/National	119,000	8
21. Carpentry Construction	I I	110,000	8
22. Hospital Dietary Aide	Center	109,000	8
23. Electronic Technician	Center	108,000	8
24. Teller	Center CCC/National	107,000	7
25. Combination Welder	Center/CCC	107,000	7
26. Welder, Spot	Center/CCC	107,000	7
27. Welder, Gas Metal Arc	Center	97,000	7
28. Receptionist	Center	94,000	7
29. Accounting Clerk	Center	93,000	7
30. Cook, Short Order	Center/National	90,000	7
31. Electrician	Center	87,000	7
32: Draftsman	Center/CCC/National	86,720	6
33. Cook 34. Teacher, Nursery	Center	78,056	6
35. Landscaper	Center	75,641	6
36. Engineering Aide/Rod-	0001	•	ŀ
	National Contract	74,369	6
man 37. Service Station Atten-		•	
dent	Center/National	74,100	· 6
38. Heavy Equipment Opera-			
tor	Center/National	72,663	6
39. Plumber	Center/National	71,805	6
40. Forklift Operator -	Center	59,356	6
41. Dental Assistant	Center	54,360	5
42. Machinist	Center	44,255	- 5
43. Warehouseman	Center	43,470	5
TO. WAI CHOUSEMAN	21		
	27 51		
6			· · ·
	•		

TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES ABSOLUTE GROWTH

1980-1990

TRAININ	G OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
44 Dies	el Mechanic	Center	38,438 +	5
1	nt Mason	Center/CCC/National	37,098	5
	k/Stone Mason	Center/CCC/National	33,975	5
47. Pain	- Control of the cont	Center/National	33,840	5
	t Metal Worker	Center	33,070	5
	cal Lab Technician	Center/National	31,040	4
	Conditioner/Refri-			ł
	erator Mechanic	Center	30,389	. 4
	ine Operator, Lathe	Center	29,404	4
	ine Operator	Center	29,080	4
	1 Gas Engine Repair	Center	28,238	· 4
54 Cosm		Center	27,453	4
1	cal Lab Assistant	Center	26,447	4
	Cutter	Center	23,923	4
	Body Repair	Center/National	23,324	3
	essional Program		,	_
_	ide	Center	21,891	3
	o/TV Repair	Center	13,506	3
60. Mail		Center/National	13,405	3
	lation Worker	Center	12,977	3 3 3
	cormunications	National Contract	11,515	• 3
i	et Printer	Center	11,272	* 3 3 3
	al Caretaker	Center	10,222	
	y Equipment Repair	Center/National	10,003	2
66. Bake		Center	9,758	2
	r Installers**	National Contract	9,500	2
	Control	Center	8,097	2
69. Floo		Center/National	6,320	2
70. Tile	=	National Contract	5,099	2 .
	icating Machine	i		_
0	perator	Center	4,564	2
72. Elec	trical Appliances			_
	epair	Center	3,928	2
73. Plas		Center/National	1,639	j
74. Fore	stry & Conservation	ccc	1,512	ī
75. Furn	iture Upholsterer	Center	1,331	1
76. Calc	ulating Machine			_
0	perator *	Center	882	j (
77. Deck	hand *	National Centract	726	1
78. Rail	way Clerk*	National Contract	-1,035	į
79. Sten	ographer*	Center	-25,317	Ţ
	unch Operator *	Center	-31,420	1
	ļ			
		· · · · · · · · · · · · · · · · · · ·		1

^{*} Occupations flagged for having negative growth

** Statistics for Solar Installer were not available from BLS 1980 projections.

This figure is based on the best estimate of Marvin Cetron, Ph.D., expert in labor market forecasting.



TABLE V-A-6 TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES

PERCENTAGE GROWTH

ŤŔÄ	INING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
7	Nurse's Assistant	Center	43.3%	10
	Dental Assistant	Center	39.6	10
	Cement Mason	Center/CCC/National	35.9	10
J .	Medical Lab Technician	Center/National	35.4	10
	Licensed Practical	,		•
1	Nurse	Center	34.9	ŧΰ
= -	Tilesetter	National Contract	33.4	10
	Brick/Stone Mason	Center/CCC/National	32.2	10
	Pest Control	Center	31.6	10
	Floor Layer	Center/National	31.5	9
110-	Insulation Worker	Center	30.6	9
111	Medical Lab Assistant	Center	29.8	; 9
112	Electronic Technician	Center	29.8	9
	Secretary	Center	29.2	9 9
	Cashier/Checker	Center	28.7	9
1	Draftsman	Center	27.8	9
	Kitchen Helper	Center -	27.7	9
	Radio/TV Repair	Center	26.2	8
1./.	Auto Service Repair	Center/CCC/National	² 6.0	8
	Cook	Center/CCC	25.8	8
		Center	25.3	8
	Teiler	Center	24.6	8
	Receptionist	Center	23.6	8
	Security Guard	Center	22.6	8 .
	Diesel Mechanic	Center/CCC	22.0	7
24.	auto Mechanic Helper	Center	22:0	7
	Electrician Helper	Center	21.8	7
26.	Baker	-	21.4	7
	Cook, Short Order	Center	21.4	7
	Waiter/Waitress	Center/National	20.9	7
29.	Plumber	Center/National	20.5	·
30.	Air Conditioner/Refri-		20.6	7
1	gerator Mechanic	Center Center/National	20.4	. 7
	Auto Body Repair		20.0	6
	Welder Combination	Center/CCC/National	20.0	- 6
	Welder, Spot	Center/CCC	20.0	<u> </u>
34.	Welder, Gas Metal Arc	Center	19.8	6
	Electronic Assembler	Center	19.6	· ·
36.	Service Station Atten-		10-0	. 6
	dent	Center/National	19.0 18.9	6
	Machine Operator, Lathe	Center	18.9	6
	Bookkeeper	Center	18.8	6
	Teacher, Nursery	Center	18.0	U
40.	Engineering Aide/Rod-	\	18.6	6
<u></u>	man	National Contract	18.6	5
41.	Solar Installer*	National Contract	18.4	۲ ,
42.	Hospital Dietary Aide	Center	· ·	<u>5</u> 5
	Custodial Maintenance	Center/CCC/National	18.3	5 5
44.	Electrician -	Center/National	17.9	. 5
		55		
	• • • • • • • • • • • • • • • • • • •	29		
1		l.	,	

TRAINING OCCUPATION RANK AND DECILE SCORE ON RATING VARIABLES PERCENTAGE GROWTH 1980-1990

ŤŖ	LINING OCCUPATION RANK	PROCUREMENT TYPE	OUTCOME	DECILE
25	Carpentry Construction	Center/National	17.8%	5
726	Retail Sales Clerk	Center	17:7	5
	Auto Parts Clerk	Center	17.7	5
	Clerk Typist	Center/CCC/National	i7.5	5
	Stock Clerk	ccc	17.4	4
	Calculating Machine		ľ	
-	Operator	Center	17:3	4
51	Heavy Equipment Opera-			1
	tor	Center/National	17:3	4 .
52	Professional Program			
	Aide	Center	17.2	4
53	Machine Operator	Center	17.1	4
,	Mail Clerk	National Contract	16.7	4
1	Machinist	Center	16.1	4 -
	Sheet Metal Worker	Center	15.6	4
	Telecommunications	National Contract	15.4	ã
	Clerk, General	Center/National	15.4	3
	Ward Clerk	Center	15.4	3
	Forklift Operator	Canter	14.9	ġ.
	Painter	Center/National	14.8	3
	Offset Printer.	Center	14.3	3
		Center	14.0	3
	Landscaper_ Small-Gas Engine Repair	15.7	13.7	3
	Duplicating Machine	Center		
03.	Operator	Center	13.6	2
1	Meat Cutter	Center	13.5 13.5	2
	- · · —	Center	13.3	2 2 2 2
	Accounting Clerk	Center	12.9	2
1 -	Animal Caretaker	Center	12.2	2
	Warehouseman		12.1	Ž
	Forestry & Conservation	Center	11.9	2
	Cosmetology	Center/National	11:3 11:2	2
	Heavy -Equipment Repair	Center	10.6	$\frac{1}{1}$
	Furniture Upholsterer	Center	10.4	· · · · · · · · · · · · · · · · · · ·
1	Construction Labor	Center/National	10.0	1
	Plasterer	Center/National	10.0	•
/6.	Electrical Appliance	Carrier II	7.9	1
	Repair	Center	2:1	i
	Deckhand	National Contract	-9.1	i
	Stenographer	Center	-9.7 -9.7	i
	Keypunch_Operator	Center	-18.6	i
80.	Railway Clerk	National Contract	-10.0	. •
*Sta	tistics for Solar Instal s figure is based on the	ler were not available best estimate of Mary	e from BLS 190 vin Cetron, Pl	0 projections.
	or market forecasting.	_		,
		₃₀ 34		,

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Decile Scoring and Weighting of Occupational Effectiveness Criteria

TRAINING		CRITERIA FOI	R HATING IN	AINING OCCU	IPATION EFF				
OCCUPATION	Percent Job Placed	Average Wage of Job	Cost Per Job Placement	Cost Per Training Year	Ahsolute Growth	Percentage Growth		TOTAL UN- WEIGHTED SCORE	TOTAL WEIGHTE SCORE
	Decile Wal Score	Decide Wat Score	Derile Wijt Score	Decile Wijt Score—	Decile Wal Scare	<u>Décile Wijl Score</u>	Decile Wgt Score		
l Sub Professional				:					*1
Draftsman	4x4 = 16	7x1 = 7	5x4 = 20	5x2 = 10	$7\ddot{x}\ddot{2} = 1\ddot{4}$	9x1 = 9		37	76
Cosmetologist	4x4 = 16	· ·	4x4 = 16	5x2 = 10	4x2 = 8	2x1 = 2		21	54
N) Eng. Aide/Rodman			1x4 = 4	1x2 = 2	6x2 = 12	6x1 = 6		32	<u>69</u>
Electronic Tech.			4x4 = 16	$2\bar{x}2 = 4$	8x2 = 16	9x1 = 9	,	43	95
Prof. Prog. Aide	=		10x4 = 40	10x2 = 20	3x2 = 6	4x1 = 4		34	83
2 Clerical/Sales		·	·						
Clerk Typist	2x4 = 8	4x1 = 4	8x4 ≡ 32	10x2 = 20	9x2 = 18	5x1 = 5		38	87
N)Clerk Typist	10x4 = 40		1x4 = 4	$2x^2 = 4$	9x2 = 18	5x1 ≈ 5		36	79
C)Clerk Typist	1x4 = 4		1x4 = 4	$4\bar{x}^2 = 8$	9x2 = 18	5x1 = 5		24	43
Dupl. Mach. Opr.		1x1 = 1	7x4 = 28	8x2 = 16	2x2 = 4	2x1 = 2	,	21	79 43 55 57 67
Keypunch Opr.	3x4 = 12	6x1 = 6	6x4 = 24	6x2 = 12	1x2 = 2	1x1 = 1		23	57
C)Stock Clerk	6x4 = 24	7x1 = 7	3×4 = 12	2x2 = 4	8x2 = 16	4x1 = 4		30	
etail Sales Clerk	4x4 = 16	1×1 = 1	10x4 = 40	10x2 = 20	10x2 = 20	5x1 = 5		40	102
Accounting Clerk	4x4 = 16	6x1 = 6	7x4 = 28	9x2 = 18	7x2 = 14	2x1 = 2		35	72
Secretary	5x4 = 20	$1\bar{x}1 = 1$	3x4 = 12	5x2 = 10	10x2 = 20	9x1 = 9		33	70
Bookkeeper	2x4 = 8	3x1 = 3	7x4 = 28	9x2 = 18	8x2 = 16	6x1 = 6		35	17 67
Calc. Mach. Opr.		<u>l</u> xl = 1	9x4 = 36	10x2 = 20	1x2 = 2	4x1 = 4		26	20
N)Mail Clerk	1x4 = 4	lxl = 1	1x4 = 4	5x2 = 10	3x2 = 6	4x1 = 4	:	15	84 72 79 67 29 91
Cashier/Checker	1x4 = 4	$2\bar{x}1 = 2$	9x4 = 36	10x2 = 20	10x2 = 20	9x1 = 9		41 40	98 37
Clerk, General	3x4 = 12	5x1 = 5	9x4 = 36	$10x^2 = 20$	$10x^2 = 20$	3x1 = 3 $3x1 = 3$		39	198
N)Clerk, General	10x4 = 40	9x1 = 9	6x4 = 24	2x2 = 4	10x2 = 20	$\begin{array}{c c} 3x1 = 3 \\ \hline 8x1 = 8 \end{array}$		34	
Receptionist	1x4 = 4	2x1 = 2	$7\tilde{x}4 = 28$	9x2 = 18	$7x^2 = 14$	$\begin{array}{c c} 8x1 = 8 \\ \hline \end{array}$		43	7 <u>4</u> 9 7
Teller	2x4 = 8	5x1 = 5	10x4 = 40	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8x2 = 16 $1x2 = 2$	$\begin{vmatrix} 6x1 & \pm 0 \\ 1x1 & \pm 1 \end{vmatrix}$			41 ·
Stenographer	1x4 = 4	$4\bar{x}1 = 4$	$3\ddot{x}4 = 12$ $9\ddot{x}4 = 36$		10x2 = 2 $10x2 = 20$	3x1 = 3	2	19	90 47
Ward Clerk	4x4 = 16	$3\bar{x}1 = 3$	$9\ddot{x}4 = 36$ $1\ddot{x}4 = 4$	10x2 = 20 $1x2 = 2$	10x2 = 20 $1x2 = 2$	$\begin{array}{c c} 3x1 & 3 \\ 1x1 & = 1 \end{array}$		39 24	98 59
N)Railway Clerk	10x4 = 40	10x1 = 10	174 - 4	177 - 7	406 - 6				

H- Home Builders (NAHB)
H- National Contractor
C- Civilian Conservation Corps-ICCCI
R- Center & CCC or National Contractor



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		. HIABBIT PX	S KATIMO TO	, Occi	DATION ESE	ECTIVENESS			
TRAINING	CRITERIA FOR RATING TRAINING OCCUPATION EFFECTIVENESS TRAINING								
OCCUPATION	Percent Job Placed	Average Wage of Job	Cost Per Job Placement	Cost Per Training Year	Absolute Growth	Perceninge Growth		TOTAL UN- WEIGHTED	TOTAL WEIGHTED SCORE
_	Decile Wal Score	Décile Wgl Score	Decile Will Score	Decile Will Score	Decile Wat Score	Decile Wijl Score	Decile Wat Score	SCORE	SCURE
:							;		
03 Service Occup.	;							,	·
Custodial Maint.		6 x l = 6	5x4 = 20	6x2 = 12	$10\bar{x}2 = 20$	5x1 = 5	·	35	75 80
(H) Custodial Maint.		3x1 = 3	3x4 = 12	4x2 = 8	10x2 = 20	5xl = 5		33 29	80
(C) Custodial Maint.		5x1 = 5	2x4 = 8	<u>3</u> x2 = _6	$10\bar{x}2 = 20$	<u>5</u> x1 = 5		29	60
Security Guard	9x4 = 36	3x1 = 3	8x4 = 32	7x2 = 14	8x2 = 16	8 = 8	′	43 28	109 69 62
Teacher, Nursery		1x1 = 1	9x4 = 36	5x2 = 10	6x2 = 12	6x1 = 6		28	69
Animal Caretaker	7x4 = 28	$8\bar{x}1 = 8$	4x4 = 16	$1\bar{x}2 = 2$	3x2 ≡. 6	2x1 = 2		25	62
04 Forestry/Garden							-		
Landscaper	4x4 = 16	4x1 = 4	10x4 = 40	$7\bar{x}\bar{2} = \bar{1}\bar{4}$	$6\bar{x}^2 = 12$	3x1 = 3		34	89
(C) Forestry & Cons.	$7\bar{x}4 = 28$	6x1 = 6	$5\bar{x}4 = 20$	$3\bar{x}2 = 6$	1x2 = 2	2x1 = 2		24	64
Pest Control	7x4 ≈ 28	$3\bar{x}1 = 3$	10x4 = 40	9x2 = 18	2x2 = 4	10x1 =10	,	41	103
05 <u>rood Service</u>				,	:				
Waiter/Waitress	6x4 = 24	īxī ≡ ī	7x4 ≡ 28	3x2 = 6	9x2 = 16	7x1 = 7		33	84
Cook	$\frac{2x^2-2!}{2x^4}=8$	2x1 = 2	8x4 = 32	8x2 = 16	6x2 = 12	8x1 = 8		34	78
(C) Cook	5x4 ≈ 20	5x1 = 5	2x4 = 12	2x2 = 4	6x2 = 12	8x1 = 8		28	57
Baker	1x4 = 4	4x1 = 4	6x4 = 24	7x2 = 14	2x2 = 4	7x1 = 7	,	27	57
Meat Cutter	8x4 ≈ 32	7x1 = 7	6x4 = 24	6x2 = 12	4x2 = 8	2x1 = 2		33	<u>8</u> 5
Cook, Short Order	9x4 = 36	4x1 = 4	8x4 = 32	3x2 = 6	7x2 = 14	7x1 = 7		38	99
* Kitchen Helper	10x4 = 40	2x1 = 2	8x4 = 32	5x2 = 10	9x2 = 18	9x1 = 9		43	iii ·
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	,		41						
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H- Home Builders (NAHB)



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N - National Contractor C - Civilian Conservation Corps (CCC) B - Center & CCC or National Contractor

TRAINING	CRITERIA FOR RATING TRAINING OCCUPATION EFFECTIVENESS TRAINING								
OCCUPATION	Percent Job Placed	Average Wage of Job	Cost Per Job Placement	Cost Per Training Year	Absolute Growth	Percentage Growth		TOTAL UN- WEIGHTED	TOTAL WEIGHTED
	Decile Wat Score	Decile Wal Score	Decile Wal Score	Decile Will Score	Decile Wgt Score	Decili Wijt Score	Decilo Wgi Score	SCORE	SCORE
-									
06 Auto/Mach. Rep.			٠.						
Auto Mech. Helper	5x4 = 20	 5x1 = 5	6x4 = 24	7x2 = 14	9x2 = 18	7x1 = 7		39	88
(C) Auto Mech. Help.		3x1 = 3	4x4 = 16	4x2 = 8	9x2 = 18	7x1 = 7		31	68 '
Auto Service/Rep.		$4\bar{x}1 = 4$	8x4 = 32	8x2 = 16	9x2 = 18	8 = 1x8		41	94
(N) Auto Service/Rep	'	9x1 = 9	1x4 = 4	1x2 = 2	9x2 = 18	8x1 - 8		36	73
(C) Auto Service/Rep		7x1 = 7	5 x 4 = 20	4x2 = 8	9x2 = 18	8x1 = 8		41	93
Small Gas Eng.Rep		$2\bar{x}1 = 2$	5x4 = 20	9x2 = 18	4x2 = 8	3x1 = 3		27	67
Auto Body Rep.	5x4 = 20	5x1 = 5	8x4 = 32	8x2 = 16	3x2 = 6	7x1 = 7		36	B6
(N) Auto Body Rep.	10x4 = 40	9x1 = 9	2x4 = 8	1x2 = 2	3x2 = 6	7x1 = 7		32	72
Auto Parts Clerk	9x4 = 36	5x1 = 5	10x4 = 40	10x2 = 20	10x2 = 20	5x1 = 5	٠	49	126
Serv. Stat. Atten	5x4 = 20	3x1 = 3	5x4 = 20	6x2 = 12	6x2 = 12	6x1 = 6		31	73
(N) Serv. Stat Atten	2x4 = 8	2x1 = 2	7x4 = 28	7x2 = 14	6x2 = 12	6x1 = 6		30	70
Diesel Mech.	9x4 = 36	7x1 = 7	5x4 = 20	5x2 = 10	5x2 = 10	8x1 = 8		39	91
Heavy Equip Rep.	2x4 = 8	7x1 = 7	1x4 = 4	3x2 = 6	2x2 = 4	2x1 = 2	,	17	31
(N) Heavy Equip. Rep.	10x4 = 40	9x1 = 9	1x4 = 4	1x2 = 2	2x2 = 4	2x1 = 2		25	61
07 Construction		,							
Trades				-					
(H) Carpenter Const	6x4 = 24	6x1 = 6	3x4 = 12	4x2 = 8	8x2 = 16	$5\bar{x}1 = 5$		32	71
Carpenter Const.	3x4 = 12	4x1 = 4_	5x4 = 20	7x2 = 14	8x2 = 16	5x1 = 5		32	71
(N) Carpenter Const.	8x4 = 32	10x1 = 10	1x4 = 4	1x2 = 2	8x2 = 16	5x1 = 5		33	<u>69</u>
Electrician	5x4 = 20	6x1 = 6	9x4 = 36	9x2 = 18	7x2 = 14	5x1 = 5		41	99
(H) Electrician	10x4 = 40	7x1 = 7	3x4 = 12	4x2 = 8	7x2 = 14	5x1 = 5		37	90
Cement Mason	3x4 = 12	2x1 = 2	5x4 = 20	5x2 = 10	5x2 = 10	10x1 =10		30	64
(N) Cement Mason	6x4 = 24	9x1 = 9	2x8 = 16	2x2 = 4	5x2 = 10	10x1 =10		35	69
(C) Cement Mason	9x4 = 36	6x1 = 6	3x4 = 12	3x2 = 6	5x2 = 10	10x1 =10		36	80
Brick/Stone Mas.	2x4 = 8	3x1 = 3	8x4 = 32	8x2 = 16	5x2 = 10	10x1 =10		3 6	79
(N) Brick/Stone Mas.	6x4 = 24	9x1 = 9	2x4 = 8	2x2 = 4	5x2 = 10	10x1 =10		34	65
(C) Brick/Stone Mas.	9x4 = 36	1	4x4 = 16	$4x^2 = 8$	5x2 = 10	10x1 =10	1	39 56	87 76
(H)Brick/Stone Mas.			$3\hat{x}\hat{4} = 12$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\int \tilde{x} \tilde{z} = 10$	10x1 = 10	1	36	75
(H)Cement Mason	3x4 = 12	8x1 = 8	$2x^4 = -8$	3x2 = 6	5x2 = 10	10x1 =10		31	54

H- Home Builders (NAHB)



N - National Contractor
C - Crean Conservation Corps (CCC)
% - Center & CCC or National Contractor

TRAINING	CRITERIA FOR RATING TRAINING OCCUPATION EFFECTIVENESS								
TRAINING OCCUPATION	Percent Job Placed	Average Wage of Job	Cost Per Job Placement	Cost Per Training Year	Absolute Growth	Percentage Growth		TOTAL UN- WEIGHTED SCORE	TOTAL WEIGHTED SCORE
	Decile Wal Scott-	Decile Wal Score	figcile Wat Score	Decile Wgt Score	Decile Wal Score	Decile Wijt Score	Decile Wgl Score		
07 Construction						;		· <u>·</u>	
Trades (H)Painter	8x4 = 32	7x1 = 7	6x4 = 24	5x2 = 10	5x2 = 10	3x1 = 3		34	86
Painter	3x4 = 12	2x1 = 2	10x4 = 40	8x2 = 16	5x2 = 10	3x1 = 3		31	83
(N) Painter	7x4 = 28	9x1 = 9	2x4 = 8	2x2 = 4	5x2 = 10	3x1 = 3		28	<u>6</u> 2
Heavy Equip Oper		8x1 = 9	2x4 ∝ 8	· 2x2 = 4	6x2 = 12	4x1 = 4		27	56
(N) Heavy Equip Oper		10x1 = 10	1x4 = 4	1x2 = 2	6x2 = 12	4x1 = 4		31	68
Plumber	5x4 = 20	4x1 ± 4	6x4 = 24	7x2 = 14	6x2 ≈ 12	7x1 = 7		35	81
(H)Plumber	8x4 = 32	8x1 = 8	3x4 = 12	3x2 = 6	6x2 = 12	7x1 = 7		35	77
(N) Plasterer	7x4 = 28	10x1 = 10	1x4 = 4	2x2 = 4	1x2 = 2	1x1 = 1		22	49
(N) Tilesetter	8x4 = 32	10x1 = 10	2x4 = 8	2x2 = 4	$2\bar{x}2 = 4$	10x1 = 10		34	68
(C)Const. Labor	7x4 = 28	5x1 = 5	2x4 = 8	$1.\bar{x}2 = 2$	9x2 = 18	1x1 = 1		25	62
Welder, Spot	2x4 = 8	8x1 = 3	7x4 = 28	7x2 = 14	7x2 = 14	6x1 = 6		37 :	78
*Floor Layer	6x4 = 24	10x1 = 10	$\frac{1}{4}$ x4 = 16	4x2 = 8	2x2 = 4	9x1 = 9		35	_ 11 _
Insulation	6x4 = 24	6x1 = 6	9x4 = 36	10x2 = 20	3x2 ≈ 6	9x1 = 9		43	101
(C)Welder, Spot	7x4 = 28	9x1 = 9	$3\bar{x}^4 = 12$	2x2 = 4	$7 \times 2 = 14$	6x1 = 6	,	34	73
08 Electrical/Appl. Repair						1		,	
Air Con/Ref Mech	4x4 = 16	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8x4 = 32	6x2 = 12	4x2 = 8	7x1 = 7	l I	32	78
Elec Appl. Repair		$4\bar{x}1 = 4$	9x4 = 36	9x2 = 18	2x2 = 4	1x1 = 1	İ	30	<u>8</u> 3
Radio/TV Repair	3x4 = 12	5x1 = 5	5x4 = 20	10x2 = 20	3x2 = 6	8x1 = 8		34	71
Electrician Help	1	1x1 = 1	6x4 = 24	8x2 = 16	9x2 = 18	7x1 = 7		34	- 78 78
(H) Solar Installer	10x4 = 40	9x1 = 9	4×4 = 16	3x2 = 6	2x2 = 4	5x1 = 5		33	80
(N) Telecommunica.	5x4 = 20	4x1 = 4	7x4 = 28	6x2 = 12	3x2 = 6	3x1 = -3		28	73
1117 10200011111111111111111111111111111								'	
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H- Home Builders (NAHB)
H- National Contractor
C- Chyllan Conservation Corps (CCC)
- Center & CCC or Not and Contractor



TRAINI <u>ng</u>		CRITERIA FOI	R RATING TH	AINING OCCU				AWATA MIN'	
OCCUPATION	Percent Job Placed	Average Wage of Job	Cost Per Job Placement	Cost Per Training Year	Absolute Growth	Percentage Growth	<u>-</u> .	TOTAL UN- WEIGHTED SCORE	TOTAL WEIGHTEI SCORE
· ·	Decile Well Score	Decile Wyl Score.	Decole Will Score	Becile Will Score	Decile Wgt Score	Decile Will Score	Dacile Wgi Score		
Production Machine Operator		10x1 = 10 8x1 = 8	8x4 = 32 6x4 = 24	7x2 = 14 $6x2 = 12$	4x2 ≡ 8 7x2 ≖ 14	$4\bar{x}1 = 4$ $6\bar{x}1 = 6$		43 38	108 84
Comb. Welder (N)Comb. Welder (C)Comb. Welder Sheet Metal Wkr. Furniture Uphols	6x4 = 24	9x1 = 9 8x1 = 8 8x1 = 8 3x1 = 3	2x4 = 8 $4x4 = 16$ $8x4 = 32$ $7x4 = 28$	$3x^{2} = 12$ $4x^{2} = 8$ $3x^{2} = 6$ $9x^{2} = 18$ $7x^{2} = 14$ $8x^{2} = 16$	$ \begin{array}{c cccc} 7x2 & = & 14 \\ 7x2 & = & 14 \\ 7x2 & = & 10 \\ \hline 1x2 & = & 2 \\ \hline 9x2 & = & 18 \\ \end{array} $	6x1 = 6 $6x1 = 6$ $4x1 = 4$ $1x1 = 1$ $6x1 = 6$	-	38 - 34 34 43 25 45	69 74 108 72 110
Elec. Assembler Offset Printer Weld, Gas. Arc Mach. Oper, Latho Machinist	6x4 = 24 8x4 = 32 9x4 = 36 7x4 = 28 7x4 = 28	ľ	5x4 = 20 $10x4 = 40$ $6x4 = 24$	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccc} $	3x1 = 3 $6x1 = 6$ $6x1 = 6$ $4x1 = 4$		31 46 35 35	78 116 83 84
0 Transportation					106				
Warehouseman Forklift Opr. N)Deckhand	8x4 = 32 $9x4 = 36$ $10x4 = 40$	8x1 = 8	$10x^4 = 40$			2x1 = 2 3x1 = 3 1x1 = 1		39 43 26	106 113 67
						.,			

H- Home Builders (NAHB)



N - National Contractor
C - Cream Conservation Corps (CCC)
& - Center & CCC or National Contractor

TRAINING OCCUPATION	porcent i aveldut i cottoer inti i control i c				TOTAL UN- WEIGHTED	TOTAL WEIGHTED			
	Decile Wat Scare	Decile Wat Score	Decile Wgt Score	Decile Wal Score	Décile Wijt Score	Decile Wgl Score	Decile Wgt Score	SCORE	SCORE
Nurse Asst. Dental Asst. Lic. Prac. Nurse Hosp. Diet Aide Medical Asst. * Med. Lab. Tech.	2x4 = 8 8x4 = 32	2x1 = 2 7x1 = 7 10x1 = 10 1x1 = 1 6x1 = 6 1x1 = 1	9x4 = 36 7x4 = 28 3x4 = 12 9x4 = 36 4x4 = 16 2x4 = 8	9x2 = 18 $5x2 = 10$ $4x2 = 8$ $9x2 = 18$ $6x2 = 12$ $8x2 = 16$	$ \begin{array}{r} 10x2 = 20 \\ 6x2 = 12 \\ 8x2 = 16 \\ 8x2 = 8 \\ 4x2 = 8 \end{array} $	$ \begin{array}{r} 10x1 = 10 \\ 10x1 = 10 \\ 10x1 = 10 \\ 5x1 = 5 \\ 9x1 = 9 \\ 10x1 - 10 \end{array} $		42 43 41 35 32 26	94 99 80 88 63 47
						,	Maximum	60	140
							Median	34	78
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H- Home Builders (NAHB)



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N - National Contractor C - Christian Conservation Corps (CCC) R - Center & CCC or National Contractor

TABLE V-C UNWEIGHTED RELATIVE EFFECTIVENESS RANK OF JOB CORPS TRAINING OCCUPATIONS

UPPER GROUP

TRAINING OCCUPATION EFFECTIVENESS RANK TRAINES TRAINING TRAINES TRAINING TRAINES TRAINING TRAINES TRAINING TRAINES TRAINING TRAI		UPPER GRO	UP	
2. Welder, Gas Metal Arc. 50 3. Electronic Assembler 631 4. Dental Assistant 87 5. Security Guard 84 6. Machine Operator 82 7. Kitchen Helper 32 8. Forklift Operator 27 9. Teller 27 10. Sheet Metal Worker 26 11. Electronic Tech. 25 12. Insulation Worker 3, 3067 13. Nurse Assistant 3, 3067 14. Auto Service/Repairer 623 15. Electrician 623 16. Auto Service/Repairer 7, 222 17. Cashier Checker 161 18. Licensed Prac. Nurse 76 19. Pest Control 42 20. Clerk, General 598 21. Retail Sales Clerk 433 22. Auto Mechanic Helper 562 23. Ward Clerk 980 24. Warehouseman 180 25. Clerk, General 62 26. Brick/Stone Mason 45 27. Diesel Mechanics 28 28. Clerk Typist 3,154 29. Combination Welder 1,880 20. Combination Welder 1,880 20. Comber 39 21. Retail Spot 601 22. Center 38 23. Center 39 24. Warehouseman 28 25. Center 39 26. Brick/Stone Mason 45 27. Diesel Mechanics 28 28. Clerk Typist 3,154 29. Combination Welder 1,880 30. Cook, Short Order 34 31. Welder, Spot 601 37 31. Dieset Mechanic Order 37 31. Welder, Spot 601 37				TOTAL_SCORE
	2. Welder, Gas Metal Arc. 3. Electronic Assembler 4. Dental Assistant 5. Security Guard 6. Machine Operator 7. Kitchen Helper 8. Forklift Operator 9. Teller 10. Sheet Metal Worker 11. Electronic Tech. 12. Insulation Worker 13. Nurse Assistant 14. Auto Service/Repairer 15. Electrician 16. Auto Service/Repairer 17. Cashier Checker 18. Licensed Prac. Nurse 19. Pest Control 20. Clerk, General 21. Retail Sales Clerk 22. Auto Mechanic Helper 23. Ward Clerk 24. Warehouseman 25. Clerk, General 26. Brick/Stone Mason 27. Diesel Mechanics 28. Clerk Typist 29. Combination Welder 30. Cook, Short Order 31. Welder, Spot 32. Draftsman	50 631 87 84 82 32 27 26 25 25 3,067 981 623 222 161 76 42 598 433 562 188 180 62 45 28 3,154 1,880 501 160	Center Center	46 45 43 43 43 43 43 43 43 43 44 41 41 41 41 41 41 41 41 41 41 41 41

TABLE V-C UNWEIGHTED RELATIVE EFFECTIVENESS RANK OF JOB CORPS TRAINING OCCUPATIONS

MIDDLE GROUP

	MIDDLE GRO		
TRAINING OCCUPATION EFFECTIVENESS RANK	NUMBER OF TRAINEES	TRAINING PROVIDER	TOTAL SCORE
34. Auto Body Repair 35. Brick/Stone Mason 36. Auto Service/Repair 37. Brick/Stone Mason 38. Cement Mason 39. Clerk Typist 40. Custodial Maint. 41. Cement Mason 42. Bookkeeper 43. Plumber 44. Accounting Clerk 45. Plumber 46. Machine Oper. Lathe 48. Hospital Dietary Aide 49. Floor Layer 50. Cook 51. Brick/Stone Mason 52. Landscaper 53. Receptionist 54. Painter 55. Electrician Helper 56. Tilesetter 57. Welder, Spot 58. Radio/TV Repair 59. Combination Welder 60. Combination Welder 60. Combination Welder 61. Prof. Program Aide 62. Carpenter Const. 63. Custodial Maint. 64. Solar Installer 65. Meat Cutter 66. Secretary 67. Waiter/Waitress 68. Carpenter Const. 69. Air Cond. / Ref. Mech. 70. Carpenter Const. 69. Air Cond. / Ref. Mech. 70. Carpenter Const. 69. Air Cond. / Ref. Mech. 70. Carpenter Const. 71. Medical Assistant 72. Auto Body Repair 73. Eng. Aide/Rodman	777 639 131 88 55 1226 338 313 277 276 209 87 45 39 397 144 95 62 58 50 47 930 44 228 232 139 71 693 245 200 100 100 100 100 100 100 100 100 100	Center Center U.A.W N.A.H.B. CCC B.R.A.C. Center OPCMI Center Center Center Center Center Center I.M.I. Center I.M.I. Center I.M.I. Center I.M.I. Center Center Center Center Center Center Center I.M.I. Center I.M.I. Center I.M.I. Center I.M.I. Center I.M.I. Center I.M.I. Center I.M.I. Center I.M.I. Center I.M.I. Conter I.M.I. Center I.M.I. I.H.B. Center I.M.I. I.H.B. Center I.M.I. I.H.B. I	36 36 36 36 36 36 36 36 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37
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TABLE Y-C UNWEIGHTED RELATIVE EFFECTIVENESS RANK OF JOB CORPS TRAINING OCCUPATIONS

INVER GROUP

<u> </u>	LOWER GROU	JP	
TRAINING OCCUPATION EFFECTIVENESS RANK	NUMBER OF TRAINEES	TRAINING PROVIDER	TOTAL SCORE
74. Painter 75. Offset Printer 76. Heavy Equip. Oper. 77. Service Stat. Att. 78. Auto Mech. Helper 79. Cement Mason 80. Electricial Appl. Rep. 81. Stock Clerk 82. Cement Mason 83. Service Stat. Att. 84. Custodial Maint. 85. Cook 86. Painter 87. Teacher, Nursery 88. Telecommunications 89. Baker 90. Heavy Equip. Oper. 91. Small Gas Eng. Rep. 92. Calc. Mach. Operator 93. Deckhand 94. Medical Lab Asst. 95. Construction Labor 96. Furniture Upholsterer 97. Heavy Equip. Rep. 98. Animal Caretaker 99. Forestry & Conser. 100. Railway Clerk 101. Clerk Typist 102. Keypunch Operator 103. Plasterer 104. Dupl. Mach. Oper. 105. Cosmetologist 106. Stenographer 107. Heavy Equip. Rep. 108. Mail Clerk	85 52 30 540 646 456 124 56 244 158 67 47 34 27	Center Center CCC N.A.H.B. Center CCC Center AFL-CIO CCC CCC CCC CCC CCC I.B.P.A.T. Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center Center CCC Center AFL-CIO Center CCC Center CCC Center CCC Center AFL-CIO	31 31 31 31 30 30 30 30 29 28 28 28 27 27 26 26 25 25 22 21 21 19 17 15